=> d ibib abs hitstr 1-7

ANSWER 1 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:964886 CAPLUS

141:417840

TITLE:

Transition metal complexes from solid state synthesis

INVENTOR (S):

DOCUMENT NUMBER:

Thummel, Randolph P.; Hu, Yi-Zhen

PATENT ASSIGNEE(S): SOURCE:

University of Houston, USA U.S. Pat. Appl. Publ., 17 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE					
	US 2004225122	A1	20041111	US 2004-795838	20040308					
PRIOR	RITY APPLN. INFO.:			US 2003-453068P	20030307					
AB	Methods and compns.	relate	d to the syn	thesis of photosensit	zers of					
	titanium dioxide pe	rformed	in situ, st	epwise, in the solid s	state,					
	and directly on the				•					
				generally accomplished	ed by first					
	absorbing an anchor				.a 2, 11100					
		_		appropriate transition	on metal and					
				igands to complete the						
	the transition mate	or more	secondary r	iganus co compiete che	synthesis of					
	the transition metal complex or sensitizer. The method is a much simpler and more efficient synthetic technique, than many other prepns. In									
				r directly on the surf						
	titanium dioxide, ti	he leng	thy and tedi	ous independent prepai	ation and					
	final absorption of	the se	nsitizer onte	o the titanium dioxide	e is					
				terial required for th						
				all; the in situ solid						
				purification at any s						
				he titanium dioxide an						
		with so	lvent after	each preparative step	(Zakeeruddin					
	et al., 1998).									

IT 1245-13-2, 4,4'-Dicarboxy-2,2'-biquinoline RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of transition metal complex anchored titanium dioxide)

RN 1245-13-2 CAPLUS

CN [2,2'-Biquinoline]-4,4'-dicarboxylic acid (8CI, 9CI) (CA INDEX NAME)

L9 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2003:855556 CAPLUS

DOCUMENT NUMBER:

139:347692

TITLE:

Determination of elements in body fluids and test kit including the necessary reagents for diagnosis of

diseaseses caused by elemental imbalances

Rupp, Michael E. INVENTOR(S):

Future Data, Inc., USA PATENT ASSIGNEE(S):

SOURCE: U.S. Pat. Appl. Publ., 13 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PA	PATENT NO.						APPLICATION NO.						DATE				
	US	2003						2003	1030		US 2	003-	4231	30		2	0030	424
	US	6821	786			B2		2004	1123									
	WO	2003	0917	25		A1		2003	1106	1	WO 2	003-1	US12	911		2	0030	425
		W:	ΑE,	AG,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
			GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,
			LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,
								SD,										
			UA,	UG,	UΖ,	VC,	VN,	ΥU,	ZA,	ZM,	zw							
		RW:	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,
								TM,										
								ΙE,										
								CM,										
	ΑU	2003	2237	35		A1		2003	1110		AU 2	003-2	2237	35		2	0030	425
	EΡ	1504	257			A1		2005	0209		EP 2	003-	7199	36		20	00304	425
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
								RO,										•
	JP	2005																425
PRIO		APP																
														30			00304	
	•													911			00304	
	_																	

A self-diagnostic test, a self-diagnostic test apparatus, and method of manufacturing

a self-diagnostic test for screening for elemental mineral imbalances in a patient utilizing an anal. of the reaction of mineral specific reagents to a sample from a patient are provided. In one embodiment, the invention is directed to a test for those elements that occur naturally in the body. In such an embodiment, the invention may test for those elements that comprise about 0.001% of the body weight or less (microtrace), those elements that comprise about 4% of the body weight or less (trace), those elements that comprise up to 96% of the body weight (mass), or any combination of the above. A test strip includes series of reagent spots for the colorimetric determination of the individual elements.

IT 979-88-4, Disodium 2,2'-bicinchoninate

RL: ARG (Analytical reagent use); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(determination of elements in body fluids and test kit including the necessary

reagents for diagnosis of diseaseses caused by elemental imbalances) 979-88-4 CAPLUS RN

[2,2'-Biquinoline]-4,4'-dicarboxylic acid, disodium salt (9CI) (CA INDEX CN

●2 Na

66 THERE ARE 66 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:23106 CAPLUS

DOCUMENT NUMBER: 138:83329

TITLE: Use of metal ion chelates in validating biological

molecules as drug targets in test animal models

INVENTOR(S): Rist, Oystein; Hogberg, Thomas; Holst Lange, Birgitte;

Schwartz, Thue W.; Elling, Christian E.

PATENT ASSIGNEE(S): 7TM Pharma A/S, Den. SOURCE: PCT Int. Appl., 247 pp.

CODEN: PIXXD2 DOCUMENT TYPE:

Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	PATENT NO.				KIND DATE			APPLICATION NO.						DATE			
WO	WO 2003003009				A1 20030109			WO 2002-DK456				20020628					
	W:	ΑE,	AG,	AL,	AM,	ΑT,	AT,	AU,	ΑZ,	ВA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	CZ,	DE,	DE,	DK,	DK,	DM,	DZ,	EC,	EE,	EE,	ES,
		FI,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,
		ΚP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,	LV,	LV,	MA,	MD,	MG,	MK,	MN,	MW,
		MX,	MZ,	NO,	NZ,	OM,	PH,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SK,
										ŪĠ,							
				BY,													
	RW:	GH,	GM,	KΕ,	LS,	MW,	ΜZ,	SD,	SL,	SZ,	TZ,	ŪĠ,	ZM,	ZW,	AT,	BE,	CH,
										ΙE,							
		BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG
WO	WO 2002054077			A2 20020711			WO 2001-DK867										
	W:	ΑE,	AG,	AL,	AM,	ΑT,	AT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	CZ,	DE,	DΕ,	DK,	DK,	DM,	DΖ,	EC,	EE,	EE,	ES,
		FI,	FI,	GB,	GD,	GΕ,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,
										LU,							
		MX,	ΜZ,	NO,	NZ,	OM,	PH,	ΡL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SK,
		SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	UG,	US,	UΖ,	VN,	ΥU,	ZA,	ZM,	ZW,	AM,
		ΑZ,	BY,	KG,	ΚZ												
	RW:									SZ,							
										ΙE,							
					CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG
CORITY	APP	LN.	INFO	. :						DK 20	001-3	1026		I	A 20	00106	529
]	DK 20	001-1	1027		1	A 20	00106	529
										DK 20					A 20	00106	529
]	DK 20	001-1	L030		1	A 20	00106	529

]	DK	2001-1031	Α	20010629
1	US	2001-301931P	P	20010629
١	WO	2001-DK867	Α	20011221
1	WO	2000-EP13389	W	20001229
]	DΚ	2001-536	· A	20010330
1	US	2001-280237P	P	20010330

OTHER SOURCE(S): MARPAT 138:83329

The invention discloses the use of chemical compds. or selections of chemical compds. (libraries) of the general Formula R1XFY(R1)GZR1 [F, G = N, O, S, Se, P; X, Y, Z = (un)branched C1-12 alkyl, aryl, heteroaryl, etc.; R1 = ABC; A = coupling or connecting moiety; B = spacer moiety; C = functional group] for in vivo methods for testing or validating the physiol. importance and/or the therapeutic or pharmacol. potential of biol. target mols., notably proteins such as, e.g., receptors and especially 7TM receptors in

test animals expressing the biol. target mol. with, notably, a silent, engineered metal ion site. Use of specific metal ion binding sites of a generic nature in specific biol. target mols. such as, e.g. transmembrane proteins wherein the metal ion binding site is capable of forming a complex with a metal ion is also described. Also disclosed are chemical compds. or libraries suitable for use in methods for improving the in vivo pharmacokinetic behavior of metal ion chelates (e.g. the absorption pattern, the plasma half-life, the distribution, the metabolism and/or the elimination of the metal ion chelates). In order to improve the efficacy of the impact of the metal ion chelate on the biol. target mol. after administration of the metal ion chelate in vivo to a test animal, it is advantageous e.g. to increase the period during which the metal ion chelate is in the circulatory system and/or localized at the target. Further disclosed are metal ion-chelating compds. designed to be suitable for use in a target validation process according to the invention, as well as libraries of at least two or more of such metal ion-chelating compds.

IT 1245-13-2 318512-23-1

RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(metal ion chelates in validating biol. mols. as drug targets in test animal models)

RN 1245-13-2 CAPLUS

CN

[2,2'-Biquinoline]-4,4'-dicarboxylic acid (8CI, 9CI) (CA INDEX NAME)

RN 318512-23-1 CAPLUS

CN [2,2'-Biquinoline]-4,4'-dicarboxylic acid, di-2-propenyl ester (9CI) (CA INDEX NAME)

$$C-O-CH_2-CH=CH_2$$
 $C-O-CH_2-CH=CH_2$
 $C-O-CH_2-CH=CH_2$

THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 10 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 4 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:23105 CAPLUS

DOCUMENT NUMBER:

138:83328

TITLE:

Metal ion binding-based chemical libraries useful for

drug discovery processes

INVENTOR (S): Hoegberg, Thomas; Rist, Oystein; Hjelmencrantz,

Anders; Moldt, Peter; Elling, Christian E.; Schwartz,

Thue W.; Gerlach, Lars Ole; Holst Lange, Birgitte

PATENT ASSIGNEE(S): 7TM Pharma A/S, Den.

SOURCE:

PCT Int. Appl., 242 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE			
	AM, AT, AT, AU,	WO 2002-DK455 AZ, BA, BB, BG, BR,	BY, BZ, CA, CH,			
FI, FI, GB,	GD, GE, GH, GM,	DE, DK, DK, DM, DZ, HR, HU, ID, IL, IN, LT, LU, LV, MA, MD,	IS, JP, KE, KG,			
MX, MZ, NO,	NZ, OM, PH, PL, TN, TR, TT, TZ,	PT, RO, RU, SD, SE, UA, UG, US, UZ, VN,	SG, SI, SK, SK,			
RW: GH, GM, KE, CY, DE, DK,	LS, MW, MZ, SD, ES, FI, FR, GB,	SL, SZ, TZ, UG, ZM, GR, IE, IT, LU, MC, GN, GQ, GW, ML, MR,	NL, PT, SE, TR,			
PRIORITY APPLN. INFO.:	00, 01, 011, 0A,	DK 2001-1029	A 20010629			
•		DK 2001-1032 DK 2001-1033 DK 2001-1034 DK 2001-1035	A 20010629 A 20010629 A 20010629			
OTHER SOURCE(S):	MARPAT 138:8332	US 2001-301989P US 2001-301990P 8				

The invention discloses the use of chemical compds. or selections of chemical compds. (libraries) of the general formula R1XFY(R1)GZR1 [F, G = N, O, S, Se, P; X, Y, Z = (un)branched C1-12 alkyl, (hetero)aryl, etc.; R1 = H, ABC; A = coupling or connecting moiety; B = spacer moiety; C = functional group] for in vivo methods for testing or validating the physiol. importance and/or the therapeutic or pharmacol. potential of biol. target mols., notably proteins such as, e.g., receptors and especially 7TM receptors

RN

test animals expressing the biol. target mol. with, notably, a silent, engineered metal ion site. Use of specific metal ion binding sites of a generic nature in specific biol. target mols. such as, e.g. transmembrane proteins wherein the metal-ion binding site is capable of forming a complex with a metal ion is also described. The invention provides chemical compds. or libraries suitable for use in methods for improving the in vivo pharmacokinetic behavior of metal-ion chelates (e.g. the absorption pattern, the plasma half-life, the distribution, the metabolism and/or the elimination of the metal ion chelates). In order to improve the efficacy of the metal ion chelates impact on the biol. target mol. after administration of the metal ion chelate in vivo to a test animal, it is advantageous e.g. to increase the time period during which the metal ion chelate is in the circulatory system and/or localized at the target. Metal ion chelating compds., which are designed to be suitable for use in a target validation process according to the invention and to libraries of at least two or more of such metal-ion chelating compds. are disclosed.

IT 1245-13-2 318512-23-1

RL: BSU (Biological study, unclassified); BIOL (Biological study) (metal ion binding-based chemical libraries for drug discovery processes) 1245-13-2 CAPLUS

CN [2,2'-Biquinoline]-4,4'-dicarboxylic acid (8CI, 9CI) (CA INDEX NAME)

RN 318512-23-1 CAPLUS

CN [2,2'-Biquinoline]-4,4'-dicarboxylic acid, di-2-propenyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O \\ C-O-CH_2-CH== CH_2 \\ \hline \\ C-O-CH_2-CH== CH_2 \\ \hline \\ O \end{array}$$

REFERENCE COUNT:

THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:839272 CAPLUS

DOCUMENT NUMBER:

136:95093

TITLE:

Synthesis and photophysical properties of

ruthenium(II) charge transfer sensitizers containing

AUTHOR (S):

4,4'-dicarboxy-2,2'-biquinoline and

5,8-dicarboxy-6,7-dihydro-dibenzo[1,10]phenanthroline Islam, Ashraful; Sugihara, Hideki; Singh, Lok Pratap;

Hara, Kohjiro; Katoh, Ryuzi; Nagawa, Yoshinobu; Yanagida, Masatoshi; Takahashi, Yoshiaki; Murata,

Shigeo; Arakawa, Hironori

CORPORATE SOURCE: National Institute of Materials and Chemical Research

(NIMC), Tsukuba, 305-8565, Japan

SOURCE: Inorganica Chimica Acta (2001), 322(1,2), 7-16

CODEN: ICHAA3; ISSN: 0020-1693

PUBLISHER:

Elsevier Science S.A.

DOCUMENT TYPE:

Journal English

LANGUAGE:

English

OTHER SOURCE(S): CASREACT 136:95093

Ruthenium(II) complexes cis-Ru(H2dcbiq)2X2 and cis-Ru(H2dcdhph)2X2, where H2dcbiq = 4,4'-dicarboxy-2,2'-biquinoline, H2dcdhph = 5,8-dicarboxy-6,7dihydrodibenzo[1,10]phenanthroline, and X = Cl-, NCS- or CN-, were synthesized and spectroscopically characterized. The resulting complexes show a broad and intense metal-to-ligand charge transfer (MLCT) band in the visible region with a peak between 580 and 700 nm and are emissive at room temperature The ground-state 1st pKa value of cis-Ru(H2dcbiq)2(NCS)2 (2) is 2.9 by the spectrophotometric method. Photoelectrochem. measurements show that all dyes, when anchored to a nanocryst. TiO2 film electrode, present low light-harvesting efficiencies due to inefficient driving force for electron injection into the conduction band of TiO2 from their lower energy MLCT band. The photoelectrochem. performance of 2 was also studied on a number of oxide semiconductor thin films such as Nb2O5, ZnO, SnO2 and In2O3. The results show that a high value of short-circuit photocurrent (Jsc) is observed for the semiconductors having a low-energy conduction band potential (SnO2 and In2O3). In the dye 2-sensitized TiO2 film, the absorbed photon-to-current conversion efficiency (APCE) spectrum shows an absorption band selective electron injection yield, while a wavelength independent electron injection yield is observed when dye 2 is anchored to SnO2. These results indicate that the lowest excited MLCT state is energetically favorable for electron injection into the conduction band of SnO2 but not for TiO2.

IT 979-88-4, Disodium 2,2'-biquinoline-4,4'-dicarboxylate

RL: RCT (Reactant); RACT (Reactant or reagent)

(reactant; preparation of ruthenium(II) dicarboxybiquinoline and dicarboxydihydrodibenzo[1,10]phenanthroline

chloro/isothiocyanato/cyanide charge transfer sensitizer complexes)

RN 979-88-4 CAPLUS

CN [2,2'-Biquinoline]-4,4'-dicarboxylic acid, disodium salt (9CI) (CA INDEX NAME)

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:753494 CAPLUS

DOCUMENT NUMBER: 128:109926

TITLE: Redox regulation in ruthenium(II) polypyridyl

complexes and their application in solar energy

conversion

AUTHOR(S): Nazeeruddin, Mohammad K.; Muller, Edgar;

Humphry-Baker, Robin; Vlachopoulos, Nick; Gratzel,

Michael

CORPORATE SOURCE: Institute of Physical Chemistry, Laboratory for

Photonics and Interfaces, Swiss Federal Institute of

Technology, Lausanne, CH-1015, Switz.

SOURCE: Journal of the Chemical Society, Dalton Transactions:

Inorganic Chemistry (1997), (23), 4571-4578

CODEN: JCDTBI; ISSN: 0300-9246

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal LANGUAGE: English

Ru(II) complexes [Ru(dmbip)(Hdcbpy)X], [Ru(dmbip)(Hdcbiq)X] and [Ru(dhbip)(Hdcbpy)X], where dmbip = 2,6-bis(1-methylbenzimidazol-2yl)pyridine, dhbip = 2,6-bis(1-hexadecylbenzimidazol-2-yl)pyridine, H2dcbpy = 4,4'-dicarboxy-2,2'-bipyridine, H2dcbiq = 4,4'-dicarboxy-2,2'biquinoline and X = Cl-, NCS-, CN- or H2O, were synthesized and spectroscopically characterized. They act as efficient charge-transfer sensitizers when anchored onto nanocryst. TiO2 films. The lowest-energy metal-to-ligand charge-transfer transitions in these complexes could be tuned from 500 to 590 nm by choice of appropriate ligands and the HOMO varied over 400 mV. Some of the complexes reported are emissive at room temperature The ground- and excited-state pKa values of dcbpy complexes were measured by spectrophotometric and spectrofluorometric titration Resonance-Raman spectra show bands characteristic of the dmbip and dcbpy ligand for excitation at 468 nm, while excitation at 568 nm gave predominantly bands associated with the dcbpy ligand. The excited-state pKa values and the resonance-Raman data indicate that the lowest excited state is a metal to dcbpy or dcbiq ligand charge-transfer state.

IT 1245-13-2, 4,4'-Dicarboxy-2,2'-biquinoline

RL: RCT (Reactant); RACT (Reactant or reagent)

(for preparation of ruthenium(II) polypyridyl complexes as charge-transfer sensitizers on nanocryst. TiO2 film)

RN 1245-13-2 CAPLUS

CN [2,2'-Biquinoline]-4,4'-dicarboxylic acid (8CI, 9CI) (CA INDEX NAME)

L9 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:513073 CAPLUS

DOCUMENT NUMBER: 127:214048

TITLE: Novel sensitizers for photovoltaic cells. Structural

variations of Ru(II) complexes containing

SOURCE:

2,6-bis(1-methylbenzimidazol-2-yl)pyridine

AUTHOR (S): Ruile, Stefan; Kohle, Oliver; Pechy, Peter; Graetzel,

Michael

CORPORATE SOURCE: Institut de Chimie Physique, Ecole Polytechnique

Federale de Lausanne, CH-1015, Lausanne, Switz. Inorganica Chimica Acta (1997), 261(2), 129-140

CODEN: ICHAA3; ISSN: 0020-1693

PUBLISHER: Elsevier DOCUMENT TYPE: Journal LANGUAGE: English

New Ru(II) complexes were synthesized for the application in photoelectrochem. solar cells based on dye-sensitized nanocryst. TiO2. Design strategies for the development of new dyes were tested via structural variations of the prototype complex K[Ru(II) (bmipy) (4,4'dcbpy) (NCS)] (7) with bmipy = 2,6-bis(1-methyl-benzimidazol-2-yl)pyridine, and 4,4'-dcbpy = 2,2'-bipyridine-4,4'-dicarboxylate. A π^* level tuning was performed by replacing 4,4'-dcbpy with the low π^* level ligands dcbiq (2,2'-biquinoline-4,4'-dicarboxylate) and 5,5'-dcbpy. The resulting complexes showed decreased light-to-elec. energy conversion efficiencies. K[Ru(II) (bmipy) (4-PO3bpy) (NCS)] (4-PO3H2bpy = 2,2'-bipyridine-4-phosphonic acid) also sensitized TiO2 less efficiently than the model compound The occurrence of two isomers was observed for the complexes containing 4-PO3bpy.

In

Na[Ru(II)(bmipy)(4,4'-dcbpy)X] with X = substituted phenylcyanamide(pcyd-) anions, the influence of substitution on the Ph group was studied. MLCT absorption maxima of the phenylcyanamide complexes at .apprx.510 nm were shifted to lower energies in comparison with the model complex, however photoenergy conversion efficiencies were reduced. When introduced into the complex, phenylcyanamide was coordinated via the nitrile or the amido N. With prolonged reaction time, the amido-bound isomer was partially transformed into the thermodynamically more stable nitrilo-bound isomer. Linkage isomerism of coordinated NCS- and 4-Clpcyd- was studied with multinuclear NMR (1H, 13C, 31P) spectroscopy and 13C-labeled ligands. Prospects for a substantial improvement of Ru(II) polypyridyl sensitizers for TiO2 are discussed.

IT 1245-13-2, 2,2'-Biquinoline-4,4'-dicarboxylic acid RL: RCT (Reactant); RACT (Reactant or reagent) (for preparation of ruthenium benzimidazolylpyridine biquinolinedicarboxylate complex)

RN1245-13-2 CAPLUS

CN [2,2'-Biquinoline]-4,4'-dicarboxylic acid (8CI, 9CI) (CA INDEX NAME)

REFERENCE COUNT:

45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

FILE 'REGISTRY' ENTERED AT 12:58:51 ON 13 MAR 2006 L1 STRUCTURE UPLOADED 0 S L1 L20 S L1 FULL L3 STRUCTURE UPLOADED L4 5 S L4 L5 94 S L4 FULL L6 FILE 'CAPLUS' ENTERED AT 13:00:36 ON 13 MAR 2006 L7 246 S L6 461803 S TITANIUM? L8 7 S L7 AND L8 L9 => d l1 L1 HAS NO ANSWERS L1

Structure attributes must be viewed using STN Express query preparation.

=> d 14 L4 HAS NO ANSWERS L4 STR

Structure attributes must be viewed using STN Express query preparation.